

CLAIMS:

1. An electrophoretic display panel (1), comprising:
 - an electrophoretic medium (5) comprising charged particles (6);
 - a plurality of picture elements (2);
 - electrodes (3,4) associated with each picture element (2) for receiving a potential
 - 5 difference; and
 - drive means (100) ,the drive means (100) being arranged for controlling the potential difference of each picture element (2)
 - to be a reset potential difference having a reset value and a reset duration for enabling
 - 10 particles (6) to substantially occupy one of the extreme positions, and subsequently
 - to be a grey scale potential difference for enabling the particles (6) to occupy the position corresponding to the image information,wherein the drive means are further arranged for applying, at least for reset potential differences representing 50% or more of the maximum reset pulse energy, one or more
- 15 pulses (Rp , SDp) having a voltage value of substantially less than the reset value in a time period in between application of a reset potential difference and a grey scale potential difference of opposite sign.
2. An electrophoretic display panel as claimed in claim 1, wherein the drive
- 20 means are arranged for applying for all reset potential differences one or more pulses having a voltage value of substantially less than the reset value in a time period in between application of a reset potential difference and a grey scale potential difference of opposite sign.
- 25 3. An electrophoretic display panel as claimed in claim 1, wherein the time period is at least one frame time.

4. An electrophoretic display panel as claimed in claim 1, characterized in that the device comprises means for applying in between the reset pulse and the grey scale potential difference one or more pulses with steadily reducing voltage value.
5. An electrophoretic display panel as claimed in claim 1, wherein the device comprises means for applying in between the reset potential difference and the grey scale potential difference a rest pulse of zero voltage value.
6. An electrophoretic display panel as claimed in claim 4, wherein the device comprises means for applying in between the reset potential difference and the grey scale potential difference a rest pulse of zero voltage value for a period of at least 2msec.
7. A method for driving an electrophoretic display device comprising:
- an electrophoretic medium (5) comprising charged particles (6);
a plurality of picture elements (2), in which method reset potential differences are applied to elements of the display device, prior to application of grey scale potential differences, wherein at least for reset potential differences representing 50% or more of the maximum reset pulse energy, one or more pulses (Rp , SDp) having a voltage value of substantially less than the reset value are applied in a time period in between application of the reset potential difference and a grey scale potential difference of opposite sign.
8. A method as claimed in claim 7, wherein for all reset potential differences one or more pulses (Rp , SDp) having a voltage value of substantially less than the reset value are applied in a time period in between application of the reset potential difference and a grey scale potential difference of opposite sign.
9. A method as claimed in claim 7, wherein one or more pulses (SDp) with steadily reducing voltage value are applied.
10. A method as claimed in claim 7, wherein a rest pulse of zero voltage value is applied.
11. A method as claimed in claim 10, wherein the rest pulse of zero voltage is applied for a period of at least 2msec.